

**ABSTRACT****MODULAR MEASURING DEVICE**

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The measuring device includes: A sensor module (5) having a sensor compartment in which a physical-to-electrical sensor (7) is arranged; and an electronics module (13), having an electronics compartment, in which a measuring device electronics is arranged.

10 Additionally, the measuring device includes a first connecting element (19) mounted on the electronics module (13) and electrically connected with the measuring device electronics (7), and a second connecting element (20) mounted on the sensor module (5) and electrically connected with the sensor (7). Sensor module (5) and electronics module (13) are releasably, mechanically connected together, accompanied by formation of a connecting compartment (17) lying between sensor compartment and electronics compartment and, preferably, sealed fluid-tightly, and/or pressure-tightly, relative to a surrounding atmosphere. The

20 two connecting elements are connected together electrically, especially galvanically, so that measuring device electronics and sensor are electrically coupled together, and the two connecting elements, connected with one another, are accommodated in the connecting compartment (17) formed between sensor compartment and electronics compartment.

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